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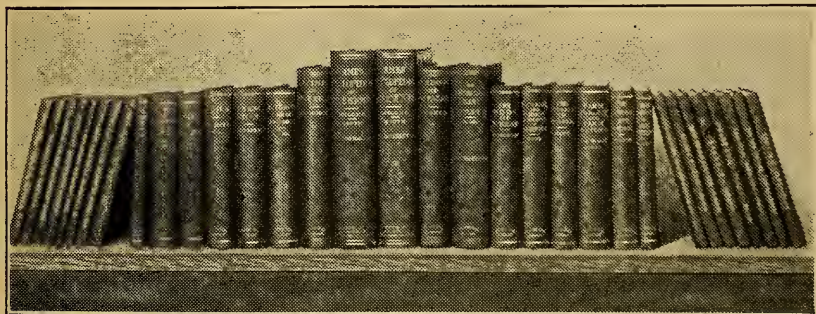
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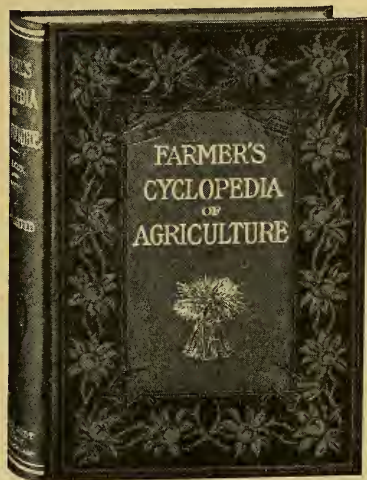
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Farmer's Cyclopedia of Agriculture

A Compendium of Agricultural Science and Practice on Farm, Orchard and Garden Crops and the Feeding and Diseases of Farm Animals

By EARLY VERNON WILCOX, Ph.D., and CLARENCE BEAMAN SMITH, M.S.

Associate Editors in the Office of Experiment Station, United States Department of Agriculture



THIS is a new, practical and complete presentation of the whole subject of agriculture in its broadest sense. It is designed for the use of agriculturists who desire up-to-date, reliable information on all matters pertaining to crops and stock, but more particularly for the actual farmer. The volume contains

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Manures, Fertilizers, Principles of Feeding, Feeding Value of Crops and Feeds, Dairy Farming

agricultural bulletins, colleges, experiment stations, and reading courses, poisonous

plants, sterility of plants and animals, spraying, soils, drainage, irrigation, veterinary medicines, etc., are all clearly and concisely discussed.

The book is based on the work of the past twenty years in experimental agriculture in this and foreign countries. The work of the experiment stations, the state and government departments of agriculture, the agricultural colleges, and the experiments of practical men have resulted in the gradual development of a new agriculture in this country. The enormous mass of evidence and facts which these agencies have been accumulating on farm practice has been summarized and carefully digested, and for the first time in the history of American agriculture an agricultural book based on experimental evidence and not rule of thumb is presented to the agricultural public in a popular and readable form. For convenience of reference the subjects have been divided into eight parts, each

Arranged in Alphabetical Order

with a complete system of cross references. All matter pertaining to any particular farm crop, animal, etc., is placed together in a single connected article with appropriate sub-headings thus making reference rapid and easy. The book is brand new. It is replete with

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Farm Machinery and Farm Motors

By J. B. DAVIDSON

Professor of Agricultural Engineering, Iowa State College and

L. W. CHASE

Associate Professor of Farm Mechanics, University of Nebraska

FARM MACHINERY AND FARM MOTORS is the first American book published on the subject of Farm Machinery since that written by J. J. Thomas in 1867. This was before the development of many of the more important farm machines and the general application of power to the work of the farm.



L. W. CHASE



J. B. DAVIDSON

A thorough review of the literature pertaining to the subject. Although written primarily as a textbook, it is equally useful for the practical farmer. A good idea of the scope and character of the work may be obtained from the following table of contents.

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| I.—Definitions and Mechanical Principles. | VIII.—Haying Machinery. |
| II.—Transmission of Power. | IX.—Manure Spreaders. |
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| IV.—Tillage Machinery. | XI.—Corn Machinery. |
| V.—Tillage Machinery (continued). | XII.—Feed Mills. |
| VI.—Seeding Machinery. | XIII.—Wagons, Buggies and Sleds. |
| VII.—Harvesting Machinery. | XIV.—Pumping Machinery. |
| | XV.—The Value and Care of Farm Machinery. |

PART II. FARM MOTORS

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|-----------------------|-----------------------------|
| XVI.—Animal Motors. | XX.—Gasoline Engines. |
| XVII.—Windmills. | XXI.—Traction Engines. |
| XVIII.—Steam Boilers. | XXII.—Electrical Machinery. |
| XIX.—Steam Engines. | XXIII.—Farm Shop. |

Part I. Farm Machinery, as shown by the contents, is, besides chapters on mechanical principles, transmission of power, materials and the strength of materials, a discussion of all of the more important machines used in modern farming operations.

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Agriculture Through the Laboratory and School Garden

A Manual and Text Book of Elementary Agriculture for Schools

By C. R. JACKSON

Instructor of Practical Agriculture and School Gardening and MRS. L. S. DAUGHERTY, Assistant in Zoology, State Normal School, Kirksville, Mo.



IT WILL at once be seen that if agriculture is to be taught in the rural schools—and it is now generally recognized that it should be—it becomes necessary for the teachers who are to have charge of these schools to have an adequate knowledge of the subject to teach it. This can be brought about only by at least a year's course in agriculture in the village, city, and county high schools, and the normal schools from which the rural school teachers come. It is for this very purpose that "Agriculture Through the Laboratory and School Garden" is written. It is not a book for children, but one for the high school and normal student or the advanced student in the rural school who does not want "baby-work." The book has been thoroughly revised and much new material added.

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I find it a very interesting volume and shall be pleased to direct the attention to it of the teachers who are interested in such a manual.—*R. W. Stimson, President Connecticut Agricultural College*.

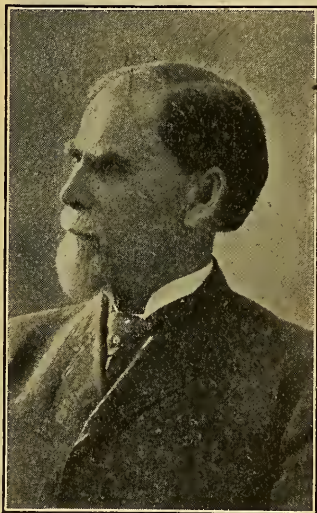
It is a book that ought to be in the hands of every teacher in the rural schools. I think it will serve an exceedingly useful purpose, not only for school work but as a handbook for the farmer himself.—*Dr. B. T. Gallaway, Chief of Division of Plant Industry, U. S. Department of Agriculture, Washington*.

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THE BOOK OF ALFALFA

History, Cultivation and Merits. Its Uses as a Forage and Fertilizer. By F. D. COBURN, Secretary Kansas Department of Agriculture.

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ever published. One of the most important movements which has occurred in American agriculture is the general introduction of alfalfa as a hay and pasture crop. While formerly it was considered that alfalfa could be grown profitably only in the irrigation sections of the country, the acreage devoted to this crop is rapidly increasing everywhere. Recent experiments have shown that alfalfa has a much wider usefulness than has hitherto been supposed, and good crops are now grown in almost every State. No forage plant has ever been introduced and successfully cultivated in the United States possessed of the general excellence of alfalfa.

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Director of the Agricultural Experiment Station, Kansas State College



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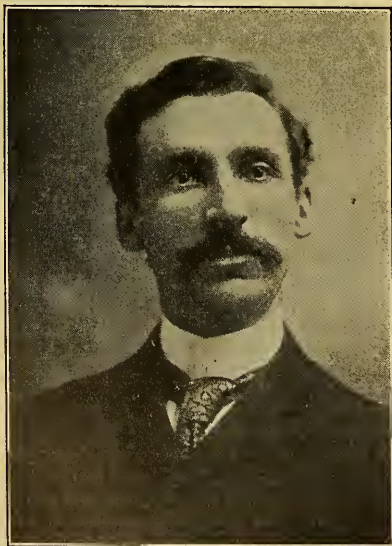
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By *Allen French*. Besides a description of each plant, its habit, value and use, the book contains detailed cultural directions for growing all vegetables cultivable in the northern United States, covering the soil, planting distances, times for sowing, thinning and transplanting, fertilizing, picking, winter protection, renewal, storage, and the management of diseases and pests. Illustrated. 5x7 inches.....Net \$1.75

The American Apple Orchard

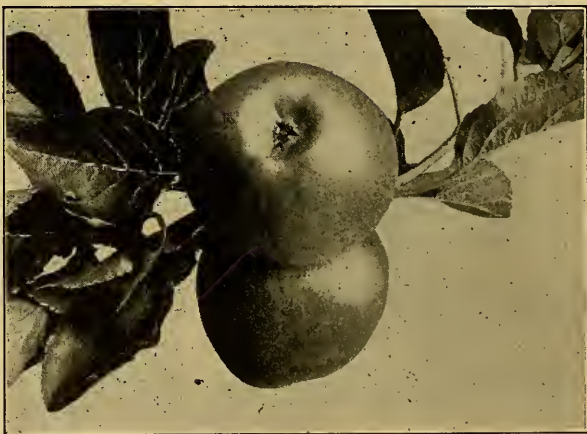
By F. A. WAUGH

THIS is just the book we have been looking for. There has been a strong and increasing demand these last ten years for a practical, pointed work on apple culture. Although there are a number of books on general fruit culture extant, they are not sufficiently definite and explicit for the ordinary reader. Our experience in the selling of books shows that a majority of buyers are interested in special crops in the care of which they want specific advice. It was in response to this demand that the Orange Judd Company began the publication of their list of popular "one crop" books.

Of all special crops in America, the apple is one of the most popular and profitable, and the call for a book on this subject has been particularly strong. After considerable planning and deliberation, we secured Prof. F. A. Waugh of Massachusetts to prepare this book for us. Professor Waugh is already well known as a writer of popular horticultural books, his "Dwarf Fruit Trees," "Landscape Gardening," "Plums and Plum Culture" and others having been for some years among our "best sellers." His books are always terse, snappy and readable. His preparation for the present work has been unusually broad and thorough, as he is personally and intimately acquainted in nearly every fruit-growing section of the United States and Canada. Furthermore, he is himself a practical fruit grower, operating extensive commercial orchards of his own. His practical experience in fruit growing, combined with long experience as a popular writer and teacher, enables him to present this subject in a manner both authoritative and attractive.

In this book chief prominence is given to modern commercial methods as practiced in large and up-to-date orchards, but there is a special chapter also

on the family orchard. Methods are discussed, not for their theoretical value, but from the standpoint of the cash profits they will return. The book is pervaded throughout with the author's enthusiasm for fruit growing in general and for the great apple industry in particular. It is well known that great advances have been made in recent years in the practice of fruit growing, and the author's position has given him unusual opportunities for keeping up with all such improvements.



The principal topics discussed are The Geography of Apple Growing, Apple Soils, Exposures, Windbreaks, Winter-Killing, Starting an Orchard, Propagation of Trees, Cultivation, Cover Crops, Pruning, Fertilizers, Insects, Diseases, Spraying Solutions, Spraying Machinery, Spraying Methods, Harvesting and Marketing, The Family Orchard, Renovation of Old Orchards, Selection of Varieties, Catalog of Varieties.

Illustrated, 5x7 inches, 226 pages. Cloth. Net, \$1.00

Systematic Pomology

Treating of the Description, Nomenclature and Classification of Fruits.

By F. A. WAUGH

Professor of Horticulture and Landscape Gardening, Massachusetts Agricultural College

THIS is the first and only work in the English language which treats on the entirely new field of Systematic Pomology. The subject comprises the systematic study of fruits, the practice of fruit growing, and the business of marketing fruits. The recent books, however, have all treated of the second division, namely, of the practice of fruit growing, while the other two divisions have been almost wholly ignored. Prof. Waugh gave

the first comprehensive treatise on commercial pomology two years ago in his *Fruit Harvesting, Storing, Marketing*. Now he presents a new work, entitled *Systematic Pomology*, covering the first of these neglected fields. The book treats exhaustively of the methods of describing fruits, of the perplexed systems of nomenclature, of the practical and scientific classification of varieties, of the scoring and judging of fruits, of the laboratory study of fruits, etc. A partial idea of the great value of this work may be gained from the outline of



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INTRODUCTION—Pomology in General.

DESCRIPTION—Making and Filing Descriptions, General Considerations, Describing Pome Fruits, Description of Drupe Fruits, Describing Strawberries, Describing Raspberries and Blackberries, Description of Currants and Gooseberries, Describing Grapes.

NOMENCLATURE—The Requirements of Nomenclature, the Lazy Club Code, American Pomological Society Rules.

CLASSIFICATION—Principles of Classification, Classification of Fruits in General, the Classification of Apples, the Classification of Pears, the Classification of Peaches, the Classification of Plums, the Classification of Cherries, Miscellaneous Fruits, Warder's Classification of Apples.

APPLICATION—Relation to the Practice of Fruit Growing, for the Teacher and the Student, Laboratory Work, Judging Fruits, Glossary.

The arrangement and treatment are such as to make the book particularly helpful to students and to all who want to learn more about pomology. It will be of great value as a textbook and laboratory guide, as a manual for committeemen in horticultural societies, and as a guide to nurserymen and fruit growers.

Illustrated, 5x7 inches, 288 pages. Cloth. Price, postpaid, \$1.00

Fruit Growing in Arid Regions

By WENDELL PADDOCK

Professor of Horticulture in the Colorado Agricultural College and Experiment Station

and ORVILLE B. WHIPPLE

Field Horticulturist in the Colorado Agricultural College and Experiment Station

The recent remarkable development of the vast areas of arid land in the Western United States has been both the cause and the result of new ideas in agricultural teaching. Conditions, not only varying widely among themselves but differing utterly from those of older cultivated regions, demanded the widest range of experiment, and resulted in the shattering of many cherished theories as well as the firmer establishment of many practices whose efficacy, under more familiar conditions, had seemed of doubtful value. The peculiar fitness of many of these arid lands for fruit-growing was long in becoming apparent, but their orchards have within comparatively recent years become a most important source of supply for both Eastern and foreign markets. The story of these years, as briefly told in the present volume, is one of great interest, and the ensuing mass of valuable agricultural teaching is set forth in detail. Every phase of fruit-growing with its local and other problems is thoroughly discussed, and no important agricultural opinion, even if differing from those held by the authors, is ignored. Soils, climates, fruit-diseases and pests, with their remedies, both preventive and curative, tools and apparatus of every sort are fully treated, and varieties of fruit likely to be successful, as well as those which have already proved their value, are minutely described. The illustrations are unusually abundant.

Illustrated. 5 x 7 inches. 395 pages. Cloth. Net \$1.50.

American Horticultural Manual

By J. L. BUDD, assisted by N. E. HANSEN

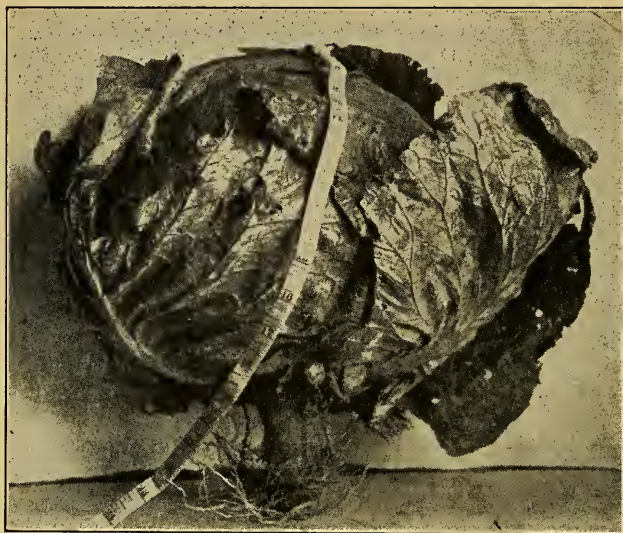
In this volume the author outlines the principles and practices of horticulture, reserving systematic pomology for a second volume. The principal chapters treat on seeds and seed growth; germination; circulation of flowers and fruits; propagation; principles of fruit-growing; transplanting; orchard management, pruning; spraying; the different classes of fruits treated separately; lawn and park trees; shrubs and vines; the vegetable and small fruit garden, etc., etc. To the beginner in horticulture who desires thorough and reliable information on its underlying principles the work can not be too highly recommended.

Illustrated. 5 x 7 inches. Cloth. Vol. I, 417 pages, \$1.50; Vol. II, 491 pages, \$1.50

Cabbage, Cauliflower and Allied Vegetables

By C. L. ALLEN

Author of Bulbs and Tuberous Rooted Plants from Seed to Harvest



THE author of this book has devoted a lifetime to the study of the subjects upon which it treats, and living on Long Island, in the very heart of the most favorable cabbage growing section in the United States, and being himself largely and practically interested in this industry, is probably more familiar with its various details than any other man.

Considerable space is devoted to the explanation of the requirements, conditions, cultivation and general management pertaining to the en-

tire cabbage group. After this each class is treated separately and in detail. The chapter on seed raising is probably the most authoritative treatise on this subject ever published, and will be intensely interesting and valuable to all those engaged in this industry. Insects and fungi attacking this class of vegetables are given due attention, with a view to giving the reader the latest and most effective means for their prevention and destruction. There is a convincing and practical tone about the entire work which at once assures the reader of the safety in following the instructions given in its pages.

Illustrated 5x7 inches, 128 pages. Cloth. Price, 50 cents

Market Gardening and Farm Notes

By BURNET LANDRETH

ALTHOUGH this work is entitled "Market Gardening," the family gardener will find all the instructions needed for gardening for pleasure as well as for profit, as it gives a vast amount of experiences and observations in the garden and field, of interest to the market and the amateur gardener, the trucker, and the farmer. A novel feature of the book is the calendar of farm and garden operations for each month of the year, indicating those which apply to each of the various sections and climates of North America. The chapter on the half-acre garden will be read with great interest by the amateur, while the chapters on seedsmen's novelties and responsibilities, manures and fertilizers, transplanting, succession and rotation of crops, celery and onion culture, and the packing, shipping and marketing of vegetables, will be especially useful to the professional market gardener. There are detailed plans and descriptions for hotbeds, cold frames and greenhouses. Gardening under glass for winter markets is treated in a thorough and businesslike way. The farmers will find the chapters on roots for stock feeding, on soils and fertilizers, on implements and storehouses, of special use in their daily operations.

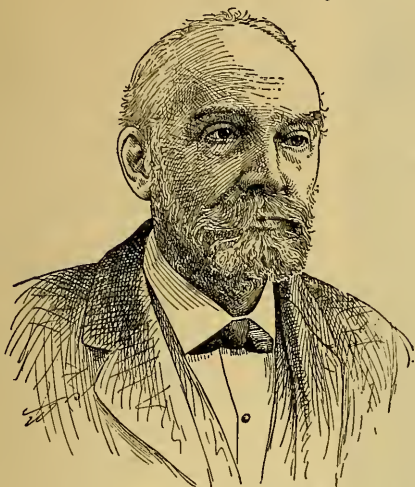
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Asparagus

Its Culture for Home Use and for Market

A practical treatise on the planting, cultivation, harvesting, marketing and preserving of Asparagus, with notes on its history and botany

By F. M. HEXAMER



WHILE most works on vegetable growing treat briefly on asparagus culture, this is the first book published in America which is exclusively devoted to this subject. All are agreed that there is no more delicious vegetable than properly grown and prepared asparagus. Yet it is but rarely found in our gardens, owing principally to the erroneous idea that its planting and after management are expensive and require special skill and knowledge. To disprove these fallacies, and to impart reliable and rational information on the improved and simplified modern methods of raising this peerless gem of the home garden, is the principal object of this work.

In successive chapters the author treats exhaustively on the saving of the seed, raising of the plants, selection and preparation of the soil, planting, cultivation, manuring, cutting, bunching, packing, marketing, canning and drying, insect enemies, fungous diseases and every requirement to successful asparagus culture, special emphasis being given to increase the importance of asparagus as a farm and money crop. As no garden is complete without an asparagus bed, so is no gardener's or farmer's library complete without this interesting and instructive book.

Handsomely illustrated, 5x7 inches, 174 pages. Cloth. Price, 50 cents

The New Rhubarb Culture

A Complete Guide to Dark Forcing and Field Culture

PART I.—By J. E. Morse, the well-known Michigan trucker and originator of the now famous and extremely profitable new methods of dark forcing and field culture. After a short historical sketch of the plant, the author explains and describes in a clear and concise manner every detail connected with the industry.

The forcing place; the commercial cellar; the house cellar; cellars with hard floors; grown in hotbeds; growing in greenhouse; a cheap forcing cellar; nooks and corners; work of forcing; starting the work; forcing season; two crops in one cellar; setting the plants; handling the roots; age of roots for forcing best varieties; how to succeed; heating; as to temperature; ventilation; light; moisture; fertilizing; thinning out; handling the crop; time of maturing; gathering the crop; tying up; marketing; fertilizers; light or thin soils; barnyard manures; binders; acidity of soil; nitrate of soda; Jadoo fiber; culture; soil; preparation; propagation; unforced roots; forced roots; plants for setting; growing from the seed; tillage; comparison of old and new methods; future outlook; magnitude of forcing industry; creating demand; benefits; how to use rhubarb; etc., etc.

Part II.—By G. B. Fiske. In this are described and illustrated other methods practiced by the most experienced market gardeners, greenhouse men and experimenters in all parts of America; sash houses and cold frames; hot water system; steam forcing in open fields; exhibition stalks; home methods; varieties and station tests; the leading sorts described; range of adaptation; northern limits; new seedlings; work of the experiment stations; hints and helps; for early market; insects and blights; culture of medicinal rhubarb; pieplant for home use; seed raising; food value; fertilizing constituents; irrigation, etc., etc.

Copiously illustrated from photographs and sketches made exclusively for this work. The only complete, practical, scientific and up-to-date manual on this crop.

5x7 inches, 130 pages. Cloth. Price, 50 cents

Celery Culture

By W. R. BEATTIE

Bureau of Plant Industry, United States Department of Agriculture



A PRACTICAL guide for beginners and a standard reference of great interest to persons already engaged in celery growing. It contains many illustrations giving a clear conception of the practical side of celery culture.

This book is the result of many years' experience in celery growing both for home use and for market. The author has also had the benefit of acquaintance with many of the most successful celery growers, and has had abundant opportunity to study their methods. The work is complete in every detail, from sowing a few seeds in a window box in the house for early plants, to the handling and marketing of celery in carload lots.

Complete cultural directions are included, together with estimates of the cost for equipment and running expenses, and a fair estimate of returns from one acre. There is perhaps no other garden crop that requires or that will justify so liberal a use of fertilizers as celery. Complete information is given regarding the value, kind, and quantity of fertilizers to apply. Full instructions are given for the home mixing of fertilizers for the celery crop.

Celery has become a wholesome addition to the fare of the masses. From a few small patches grown by Hollanders in this country a few years ago, the celery industry now includes the territory from Maine to California, and from Canada to Florida. A supply of celery for home use may be grown in almost any garden, and its commercial culture still offers pleasant and profitable employment for thousands of persons.

Celery growing is one of the most desirable occupations for persons who desire to live an outdoor life. There is something so clean and appetizing about celery while it is growing that renders its culture a source of refined employment. There is perhaps no other line of gardening that will give so prompt returns or prove so satisfactory as a source of extra income.

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TOMATO CULTURE

By WILL W. TRACY

United States Department of Agriculture

THIS is a practical treatise on the tomato, which includes its history, characteristics, methods of planting, fertilization, cultivation in field and greenhouse, points about harvesting, packing, storing, and marketing, as well as the most complete account of the insects, enemies and diseases which attack tomatoes, and remedies for their control that has ever been written. The author has made a lifelong study of this important vegetable and has here embodied for the first time a complete story of his experiences. Because of the increasing popularity of the tomato for general and popular use, this book is especially timely and important. It deals with every phase of the subject. It includes chapters devoted to the home garden, hotbed, greenhouse and large areas for commercial purposes. Every detail is treated under the following heads: Botany; history; general characteristics; essentials for development; selection of soil for maximum crop; exposure and location; fertilizers; preparation of the soil; hotbeds and cold frames; starting plants; proper distance for planting; cultivation; staking, training and pruning; ripening, gathering, handling and marketing; adaptation of varieties; seed breeding and growing; production for canning; cost of production; insects injurious to tomatoes; tomato diseases. The book is written in the most popular style for the man who wants the latest and most complete information on the subject.

Illustrated, 5x7 inches, 150 pages. Cloth. Price, 50 cents

Peas and Pea Culture

By GLENN C. SEVEY, B.S.

Editor New England Homestead

THIS interesting little book is intended for the student and practical farmer alike. Enough of the scientific has been provided to meet the demands of the former, and for the farmer great care has been exercised to keep details true to field conditions. The author brings both experience and observation to bear on the subject-matter. Botany, history and distribution constitute one chapter. Another deals with soils, fertilizers and inoculation. Cultural principles constitute Chapter III, with composition and feeding value as Chapter IV. Chapter V deals with insect and fungous pests; VI goes thoroughly into the canned pea industry; VII, peas as forage and soiling crops; VIII, breeding and seed improvement; IX, garden peas and varieties, with the concluding chapter, X, on sweet peas and their culture. The various experiments and deductions of different experiment stations and seed authorities are carefully reviewed and brought together in a workable way. Without this book a student would be required to spend hours going through various files and references to secure all the data on any one phase of the subject of peas and pea culture. An honest effort has been made to provide comprehensive, authoritative and specific information on the whole subject of peas. Facts are tersely stated, and readers will find the book an ever-ready and convenient authority on the many details connected with the crop.

Illustrated, 5x7 inches, 120 pages. Cloth. Net 50 cents

Melon Culture

By JAMES TROOP

Professor of Horticulture and Entomology, Purdue University

THIS is a practical treatise on the melon, which is intended to be of service to the amateur as well as to the large commercial grower. It includes the history of both the muskmelon and watermelon, the botanical characters, climatic, soil and other conditions affecting their growth, a discussion of the kinds of soil suitable for each, the proper method of selecting and testing the seed and its influence on the crop, the effect of planting seeds from immature fruits and a discussion of early vs. late ripening fruits for seed as affecting the time of ripening of the crop. It is the opinion of many that seeds taken from the first fruits to ripen will produce an earlier crop than will those taken from fruits from the same plant ripening toward the close of the season. It also treats of the kinds, quantity and methods of application of various fertilizers, a very important element in the production of good melons. Methods of starting the plants, both in the hot-bed and in the open ground, are discussed. The various cultural methods which are practiced by our large commercial growers are taken up in detail. The important questions concerning harvesting and marketing melons so as to secure the finest quality possible are carefully explained, as well as the various styles of packages and methods of packing in order to secure the best prices. A chapter is given to insects and diseases affecting melons, in which the latest scientific methods of combatting them are discussed in detail. A chapter is also given to forcing melons under glass, and a long list of varieties, comprising most of those under cultivation, is given, with a brief description of each.



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By *Peter Henderson*. A guide to the successful culture of the market and family garden. This volume cannot but be regarded by all, as one of the best works on Market and Family Gardening ever published. The scope of the present edition of "Gardening for Profit" has been greatly extended, embracing as it does, not only the forcing of all important fruits and vegetables under glass, but also detailing the methods of culture of all small fruits which properly come under the head of "Gardening for Profit." Although this book is written mainly for the market gardener, the amateur interested in vegetables or fruits can easily adapt its teachings to the smallest requirements. Illustrated. 5x7 inches. 376 pages. Cloth..Price \$1.50

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By *P. T. Quinn*. A vegetable manual prepared with a view to economy and profit. The author gives, in a plain, practical style, instructions on three distinct, although closely connected branches of gardening—the kitchen garden, the market garden, and field culture, from successful practical experience. Illustrated. 5x7 inches. 268 pages. Cloth.....\$1.00

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By *L. H. Bailey*. This book discusses fully the underlying questions regarding soils, fertilizing, tilling, storing, marketing, controlling insects and diseases, and other vital present-day problems. It treats the general subject of truck gardening and market gardening; also the home garden. Particular attention is given to hotbeds and cold frames; also to seeds and seed growing. Illustrated. 5x7 inches. 458 pages. Cloth. Net \$1.50

Success in Market Gardening

By *W. W. Rawson*. A vegetable growers' manual. Part I treats on location, drainage, irrigation and fertilizers, selection, vitality and sowing of seeds, cultivation of crops, construction and operation of hotbeds and greenhouses, gathering of crops, capital and labor. Part II is devoted to special crops raised for market, tools and other requisites, pumping outfits, electric light, insects and fungi and their preventives, etc., etc. Illustrated. 5x7 inches. 240 pages. Cloth..... Net \$1.10

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By *W. B. Terry*. How to grow them in the largest quantities and in the finest qualities with the least expenditure of time and labor; carefully considering all the latest improvements in this branch of agriculture up to the present date. Its principal chapters treat on soils, manures, planting, selection and care of seed, cultivating and hoeing, digging, storing, varieties, rotation, cost of production and profits, etc. Paper. \$0.45

Talks on Manures

By *Joseph Harris*. There is scarcely an opinion relative to fertilizing soils, including special manures for special crops, that is not treated in this authoritative and comprehensive work. While the teachings are founded upon the most elaborate scientific researches they are so far divested of technical language to commend themselves to farmers as eminently practical. It is not often that the results of scientific investigations are presented in a manner so thoroughly popular. The chapter specially written for this book by Sir John Bennet Lawes gives additional value to this work. Illustrated. 5x7 inches. 366 pages. Cloth.....\$1.50

The New Onion Culture

By *T. Greiner*. A complete guide in growing onions with the greatest profit, explaining the whys and wherefores. Clear and minute directions are given of how the plants are grown; the cold frame; seed bed; planting; fire hotbed; hotbed heated by steam; cheap greenhouse for market gardeners; greenhouse heated by hot water; quantity of seed required; time of sowing; varieties; what soil to select; how to manure and prepare it; onions on muck soil; clean soil essential; how the plants are set in the ground; tillage as moisture preserver and weed killer; tools of tillage; when and how to harvest the crop; danger in delay; signs of maturity; curing the crop; curing sheds; weight of crop; wintering onions; advantages and profits of the new way; estimation of cost and returns. In order to enable the reader to compare the advantages of the new with the old methods of onion culture, an extensive appendix is devoted to the latter. Illustrated. 5x7 inches. 140 pages. Cloth.....\$0.50

Vegetable Gardening

By R. L. WATTS

Professor of Horticulture, Pennsylvania State College

THIS complete, concise and authentic book covers every phase of vegetable gardening and is specially well organized as a text-book and equally valuable as a hand-book for practical growers. It is the only volume on vegetable gardening the scheme of which is in accordance with the recommendations of the association of American agricultural colleges. The logical and systematic arrangement of the matter enhances the value of the book for students as well as for busy commercial growers who need a well-organized treatise for frequent reference.

The bulletins of the experiment stations of the United States Department of Agriculture and various books and periodicals relating to garden crops were frequently consulted during the preparation of the manuscript, while at the same time the experience of successful growers is woven into every chapter. The book brings up to date the most reliable information on vegetable gardening and the full discussion of principles makes it valuable to all classes of growers whether they are producing for the home table or for market. To procure first-hand knowledge regarding varieties and methods, many market gardens and truck farms were visited in different parts of the United States. This made it possible to obtain photographs which have been used freely to illustrate the various chapters.

An idea of the scope and completeness of the book may be gained by noting the following subjects, each of which has been treated in a separate chapter: A General View, Selection of Location, Soils, Tillage, and Tillage Tools, Stable Manures, Green Manures and Cover Crops, Commercial Fertilizers, Irrigation, Insect Enemies and Fungous Diseases, Seeds and Seed Growing, Construction of Hotbeds, Construction of Cold Frames, Construction of Greenhouses, Seed Sowing, Transplanting, Growing Early Vegetable Plants Under Glass, Marketing, Co-operative Associations, The Storage of Vegetables, and the Classification of Vegetables.

One-half the book is devoted to a discussion of the culture of the vegetables grown in the United States and Canada. The list includes the Artichoke, Bean, Beet, Broccoli, Brussels Sprouts, Cabbage, Carrot, Cauliflower, Celery, Chard, Chicory, Chive, Collard, Corn-salad, Cress, Cucumber, Dandelion, Dill, Eggplant, Endive, Garlic, Horse-radish, Kale, Kohl-rabi, Leek, Lettuce, Mint, Muskmelon, Mustard, Okra, Onion, Parsley, Parsnip, Pea, Pepper, Pumpkin, Radish, Rhubarb, Ruta Baga, Sage, Salsify, Savory, Spinach, Squash, Sweet Corn, Sweet Potato, Thyme, Tomato, Turnip, and Watermelon. There are also chapters on Crop Rotation, Succession and Companion Cropping, and Home Vegetable Garden and Suggestions on Laboratory Work.



Profusely Illustrated, 5½x8 inches. 550 pages. Cloth. Net, \$1 75

Celery for Profit

By *T. Greiner*. An exposé of modern methods in growing celery. Methods by which the cost of production of first quality celery is very materially reduced are exhaustively described and fully explained. Paper.....\$0.20

Tomato Culture

By *J. W. Day, D. Cummins and A. I. Root*. In three parts. Part I—Tomato Culture in the South. Part II—Tomato Culture, Especially for Canning Factories. Part III—Plant Growing for Market and High Pressure. Gardening in General. A practical book for those who work under either glass or cloth as a protection from frost. Illustrated. Paper\$0.35

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By *James Fitz*. A monograph on the sweet potato, giving full instructions from starting the plants to harvesting and storing the crop, with a chapter on the Chinese yam. Every detail pertaining to soils, manures, propagation, planting, cultivation, harvesting, keeping and profitable marketing of this crop is clearly and fully described and explained. 5x7 inches. '86 pages. Cloth\$0.50

Gregory on Cabbages; How to Grow Them

By *James J. H. Gregory*. A practical treatise on cabbage culture, giving full details on every point, including keeping and marketing the crop. Paper. \$0.30

Gregory on Carrots, Mangold-Wurzels, etc.

By *J. J. H. Gregory*. How to raise them, how to keep them, and how to feed them. Paper\$0.30

Gregory on Onion Raising

By *J. J. H. Gregory*. What kinds to raise, and the way to raise them. Paper\$0.30

Gregory on Squashes

By *J. J. H. Gregory*. This treatise tells all about selecting the soil for squashes; how much manure is necessary; how to prepare and plant; about hoeing and cultivating; setting of the fruit; ripening, gathering, storing, care during winter, etc. Paper.....\$0.30

Onions; How to Raise Them Profitably

Practical details, from selection of seed and preparation of ground to harvesting and marketing the crop, given very plainly by seventeen practical onion growers of long experience residing in different parts of the country. Paper ,\$0.20

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By *Dr. A. Oemler*. A guide to the raising of vegetables for northern markets. Full cultural directions are given, and the methods of packing the produce for the different markets. The work throughout gives evidence that the author is not only a practical cultivator but that he is an enthusiast who loves his occupation. Illustrated. 5x7 inches. 274 pages. Cloth.....\$1.00

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By *Prof. L. H. Bailey*. In this work the author has compiled in handy form the cream of all the available information on the subject of forcing vegetables under glass. In addition to this, the experience of many practical growers in different localities is furnished. Illustrated. 5x7 inches. 266 pages. Cloth.....Net \$1.25

How to Grow Melons

This booklet treats of both Muskmelons and Watermelons, with full information on the selection of soil, use and application of manures, selection of varieties, planting the seed, destruction of insects, notes on cultivation, how to grow extra large melons, etc., etc. Paper\$0.20

Vegetable Gardening

By *S. B. Green*. A manual on the growing of vegetables for home use and marketing. It is brimful of practical information and is carefully and concisely written. The chapter on manure is of especial value. Illustrated. 5x7 inches. 224 pages. Cloth.....\$1.00

Southern Gardener's Practical Manual

By *J. S. Newman*. The object of this work is to furnish a reliable, practical guide to those who desire to avail themselves of the wonderful facilities afforded by our sunny Southland for supplying the family table with fresh vegetables from the kitchen garden every day in the year. Illustrated. 5x7 inches. 220 pages. Cloth. \$1.00

MUSHROOMS HOW TO GROW THEM

A Practical Treatise on Mushroom Culture for Profit and Pleasure

By WILLIAM FALCONER

THIS is an eminently practical book by a practical man who is a specialist in the cultivation of mushrooms, and one of the most successful growers in the country. It appeals to every urban and suburban resident as well as to farmers, for anyone who has an ordinary house cellar, woodshed or barn can grow mushrooms. For home use fresh



mushrooms are a delicious, highly nutritious and wholesome delicacy; and for market they are less bulky than eggs, and, when properly handled, no crop is more remunerative.

It is the most practical work on the subject ever written, and the only book on growing mushrooms ever published in America.

The whole subject is treated in detail, minutely and plainly, as only a practical man actively engaged in mushroom-growing can handle it.

The author describes how he himself grows mushrooms, also how they are grown for profit by the leading market gardeners, and for home use by the most successful private growers.

The book is amply and pointedly illustrated, with engravings drawn from nature expressly for this work.

The following condensed table of contents gives an idea of the scope and completeness of the work:

Those Who Should Grow Mushrooms:—Market gardeners—Florists—Private gardeners—Village people and suburban residents—Farmers—Women on the farm.

Growing Mushrooms in Cellars:—Under-ground cellars—Dwelling house cellars—Barn cellars—How various market gardeners grow them in cellars.

Growing Mushrooms in Mushroom Houses:—The different kinds of mushroom houses.

Growing Mushrooms in Sheds.

Growing Mushrooms in Greenhouses.

Growing Mushrooms in the Open Field.

Manure for the Mushroom Beds:—Different kinds of manure—Other materials besides manure.

Preparation of the Manure, etc.

Making up the Beds.

Mushroom Spawn:—What it is, and how to make it, use it, or keep it.

Proper Temperature and How to Maintain It. Caring for the Beds Before and After They Begin Bearing.

Gathering and Marketing the Mushrooms.

Stimulants to Use and When and How to Apply Them.

Insect Pests and Diseases, and How to Mitigate Them.

How Mushrooms Are Grown in the London Market Gardens.

How Mushrooms Are Grown in the Paris Caves

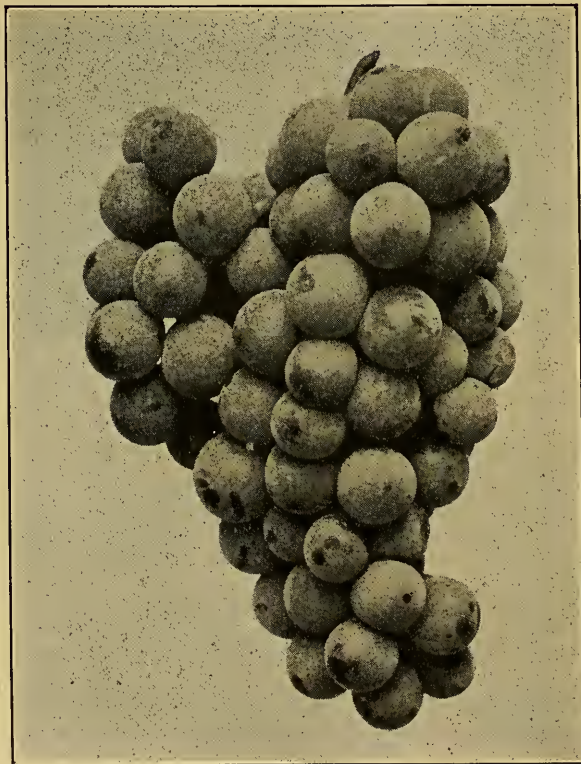
How to Cook Mushrooms:—Make ketchup of them, pot them, dry them and make powder of them.

Illustrated, 5x7 inches, 169 pages. Cloth. Price, \$1.00

Foundations of American Grape Culture

By T. V. MUNSON, D.Sc.

Practical Grape Breeder, Vineyardist, Botanist and Nurseryman



THE author of this work has a world-wide reputation among vineyardists, horticulturists and plant-breeders for his great services in viticulture and other fruit culture.

The title of the book indicates the scope of its treatment. The subject matter is handled under the various chapter divisions of: Botany of Grapes; Breeding of Grapes for every Soil, Climate and Purpose; Selection of Varieties for Vineyard Planting for Different Regions North and South; Descriptions and life-size half tone illustrations of the leading varieties for each region; Selecting, Preparing and Planting the Vineyard Site; Trellising, Pruning and Training; Fertilizing, Cultivating, and Protecting the Vineyard from Diseases and Insects; Harvesting and Marketing; Propagation by Cuttings, Layerings,

and Grafting. In every part of the work the best, only, of up-to-date methods are given. It is original, clear and practical, and besides being the most accurately scientific, clear and practical work upon American grapes suited to all sections of the country, its numerous, some 90 full-page, fine grade, life-size half-tone plates, the fine paper and substantial beautiful binding will make it an ornament in any library. It will be a fine money maker to every practical vineyardist who reads it, and a delight and helpmate to every home that grows a few vines about the house, on the trees, on walls or arbors, or garden trellis. It will make one of the best text books for study in Agricultural Colleges and High Schools where horticulture may be taught.

Highly illustrated, 7 1-2x10 inches, 250 pages. Buckram binding, gold lettering on cover.
Net \$2.00

American Grape Growing and Wine Making

By GEORGE HUSMANN

THIS latest edition is practically almost an entirely new work. The complete management of the grape in the garden as well as in the most extensive vineyards, from the planting of the vine to the harvesting of the fruit, is given in detail, according to what are now considered the best methods. As the vast extent of our country and its varying conditions of soil and climate make it impossible to give directions suitable for all sections, the author has called to his aid the most prominent authorities and most experienced vineyardists in all the various grape districts of the United States. The second part of the work is entirely devoted to these locality reports, which are of inestimable value to the grape growers living within the respective areas.

The chapters on wine making form a complete manual in themselves, describing all the various details of this rapidly increasing industry. As the author is one of the most experienced wine makers in America and a recognized authority on the subject, this part alone makes the volume indispensable to all engaged in this industry.

In order to make the work national in its scope, a considerable part is devoted to grape growing and wine making in California, a subject of which the author has made a specialty for a lifetime.

Illustrated, 5x7 inches, 310 pages. Cloth. Price, \$1.50

Chorlton's Grape Growers' Guide

By WILLIAM CHORLTON

A HANDBOOK of the cultivation of the exotic grape, intended especially for the American climate; a practical treatise on the management of the grapevine under glass. After general introductory remarks the author gives detailed descriptions of graperies and conveniences, artificial heat and apparatus, preparation of borders, planting and management for the first year, and permanent treatment for the cold graperies, forcing houses and retarding houses, pot culture, pruning and training, propagation and the raising of new kinds, injurious insects and fungi, lists of exotic and native varieties, etc.

Illustrated, 5x7 inches, 211 pages. Cloth. Price, 75 Cents

My Vineyard at Lake View

THIS book is especially valuable as giving an account of the processes actually followed in celebrated grape regions in Western New York and on the shores and islands of Lake Erie. It tells just what the beginner in grape culture wishes to know, with the charm that always attends the relation of personal experience.

Illustrated, 5x7 inches, 143 pages. Cloth. Price, 50 Cents

Grape Culturist

A Treatise on the Cultivation of the Native Grape

By ANDREW S. FULLER

Author of "Small Fruit Culturist," "Propagation of Plants," "Practical Forestry," Etc.



THIS book on grape culture has had a very large sale for many years, and has by common consent been given the palm for practical value and usefulness. The new edition has been found necessary because of the rapid strides which have been made in viticulture in the past few years. The present edition, materially enlarged, is decidedly up-to-date.

All the discoveries, pertaining to materials and methods of applying them for the purpose of resisting the various fungous diseases which have been so disastrous to grape culture, receive attention in this new edition.

The list of standard grapes is carefully revised and a large list of the more recent, but as yet unestablished varieties, is given for consideration.

It is a complete vade mecum for anyone contemplating grape growing, and no vineyardist, no matter how long his experience, can afford to be without it.

Chapters on growing from seed, on the various methods of wood propagation, layering, grafting, character of soils which are best for vineyards, trellising, pruning, culture, etc., are complete and interesting.

CONTENTS

Chapter I—Botanical Characteristics of the Grape.

Chapter II—Growing from Seed.

Chapter III—Propagation by Single Buds.

Chapter IV—Cuttings of Unripe Wood.

Chapter V—Propagation House.

Chapter VI—Cuttings in Open Air.

Chapter VII—Layering the Vine.

Chapter VIII—Grafting the Grape.

Chapter IX—Hybridizing and Crossing.

Chapter X—Transplanting.

Chapter XI—Soil and Situation.

Chapter XII—Stem Appendages.

Chapter XIII—Planting the Vine.

Chapter XIV—Grape Trellises.

Chapter XV—Time to Prune Vines.

Chapter XVI—Garden Culture.

Chapter XVII—Various Systems of Training and Pruning.

Chapter XVIII—Miscellaneous.

Chapter XIX—Insect Enemies of the Grape.

Chapter XX—Fungous Diseases.

Chapter XXI—Description of Varieties.

Chapter XXII—New or Little Known Varieties.

Chapter XXIII—Old, Obsolete and Inferior Varieties.

Illustrated, 5x7 inches, 282 pages. Cloth. Price, \$1.50

Citrus Fruits and Their Culture

By H. HAROLD HUME

Professor of Horticulture and Botany in the University of Florida. Horticulturist and Botanist of the Florida Agricultural Experiment Station

DURING the past quarter of a century no work treating on the fruits of the genus citrus has been produced. The literature has not kept pace with the growth, the development, and the new phases of the industry. Yet during this period great changes have taken place in the principles of citrus fruit culture in America. A few decades since the annual crops were but insignificant, while now the citrus industry has attained a place among the large horticultural industries of the country.

To apply the long-felt want of an up-to-date work, giving reliable and authoritative information on the subjects, the author has prepared the present work in which he has the co-operation and assistance of the foremost specialists in the country. Every part of the subject is treated with the author's usual thoroughness, special chapters being devoted to Botany, History, Varieties, Culture, in all their details; Diseases and Insects; Literature, etc., etc. The work is richly illustrated with 124 engravings, and embellished by 36 handsome plates.

5x7 inches, 587 pages. Cloth.
Net, \$2.50



The Cider Makers' Hand Book

A Complete Guide for Making and Keeping Pure Cider

By F. M. TROWBRIDGE

PURE cider is one of the most healthful and pleasant beverages that man can use. It is the pure juice of the apple fermented just as wine is, but containing much less alcohol and no tartaric acid at all, the place of the latter being naturally supplied by the malic acid of the apple. Excellent as pure cider is, it is difficult to procure it either from wholesale or retail dealers. The stuff sold for pure cider is often some villainous concoction which ought to be prohibited by law; and most of the other cider sold is made either from bad apples or by incompetent persons, and therefore is either bad from the beginning or else is spoiled through the carelessness or ignorance of the maker. In a great country like ours, where apples are produced in such overwhelming abundance, good cider ought to be plentiful and cheap, and yet at the same time be remunerative to the makers. The Cider Makers' Hand Book is a complete guide for making and keeping pure cider, by a practical man of great experience in the business. It should be in the hands of all apple growers and dealers who handle large quantities of fruit. Our mechanical intelligence has brought the necessary appliances for cider-making to great perfection; yet we learn that three-fourths or more of all the cider made is spoiled either in the process of making or immediately after becoming cider, a fact which is attributed to a general lack of information of the plain, practical and simple requirements to be observed in the making and keeping of cider, rather than to any other cause. To correct some of the erroneous theories now accepted by those engaged in Cider Making, and to be to others a **Hand Book of Practical Instruction** is the object of this most valuable work. No treatise on this art has been published in many years, and it will be welcomed by thousands as a Standard Authority of practical information, based on exact scientific facts.

Illustrated, 5x7 inches, 120 pages. Cloth. Price, \$1.00

The Practical Fruit Grower

By *S. T. Maynard*. The various fruits, how we got them, where they grow, what and when and how to plant, how to graft and bud and propagate, diseases and remedies, when to gather fruit, how to store, how to pack and ship and sell—just what the beginner needs and the successful fruit man practices—are explained in this well-arranged book. Illustrated. 5x7 inches. 128 pages. Cloth.....\$0.50

Popular Fruit Growing

By *S. B. Green*. A practical guide to the growing of fruit for home use and market. Written with special reference to colder climates. It covers the entire subject of growth, cultivation and marketing of small fruits, in addition to the cultivation, pruning and grafting of the larger fruits. Illustrated. 5x7 inches. 300 pages. Cloth. \$1.00

Bush Fruits

By *Fred W. Card*. A horticultural monograph of raspberries, blackberries, dewberries, currants, gooseberries and other shrublike fruits. The entire subject is exhaustively treated from the commercial grower's standpoint, as well as for application in the home garden. The principles which underlie the cultivation and management of all the various bush fruits are discussed, and each kind is treated in detail as to its special requirements of soil, location, fertilizers, propagation, planting, tillage, pruning, harvesting and marketing, evaporating, etc. In the list of varieties the author has endeavored to name all known kinds, together with brief descriptions and notes as to their origin. Illustrated. 5x7 inches. 537 pages. Cloth. Net \$1.50

Quince Culture

By *W. W. Meech*. An illustrated handbook for the propagation and cultivation of the quince, with descriptions of varieties, insect enemies, diseases and their remedies. New and enlarged edition. 180 pages. 5x7 inches. Cloth\$1.00

Field Notes on Apple Culture

By *Prof. L. H. Bailey, Jr.* A most useful and thoroughly practical book for orchardists. Illustrated. 5x7 inches. 90 pages. Cloth.....\$0.75

The A B C of Strawberry Culture

By *T. B. Terry* and *A. I. Root*. How to grow strawberries. For farmers, village people and small growers. Practical and colloquial talks about strawberry raising under varying conditions. The special object of this work is to teach beginners all the various details and methods by the studying of which and by following the directions given, success in growing strawberries may be assured. Paper\$0.45

Cape Cod Cranberries

By *James Webb*. A concise and reliable guide to profitable cranberry culture by a practical and successful cranberry grower. How to select a bog; clearing and turfing; ditching and draining; grading and leveling; sanding and plowing; diking and flowing; varieties; injurious insects and weeds; gathering and shipping the crop; and statistics are fully treated upon. Illustrated. Paper\$0.40

Fruits and Fruit Culture—The Principles of Fruit Growing

By *L. H. Bailey*. A complete treatise on the practice of fruit growing, comprising an inventory of fruits and a full discussion of the tillage, planting and fertilizing of fruit lands, and the protection of fruit plants from disease, frosts and other dangers. Illustrated. 5x7 inches. 516 pages. Cloth. Net \$1.50

Pear Culture for Profit

By *P. T. Quinn*. Teaching how to raise pears intelligently, and with the best results, how to find out the character of the soil, the best mode of preparing it, the best varieties to select under existing conditions, the best mode of planting, pruning, fertilizing, grafting, and utilizing the ground before the trees come into bearing, and finally of gathering and packing for market. Illustrated. 5x7 inches. 136 pages. Cloth\$1.00

California Fruits and How to Grow Them

By *Edward J. Wickson*. A manual of methods which have yielded greatest success; with lists of varieties best adapted to the different districts of the state. New, revised and enlarged edition. Illustrated. 6x9 inches. 477 pages. Cloth.....Net \$3.00

Dwarf Fruit Trees

By F. A. WAUGH

Professor of Horticulture and Landscape Gardening, Massachusetts Agricultural College

NOTHING more striking has occurred in the development of agricultural affairs during the last decade than the rise of the amateur spirit. There are now thousands of people to whom farming or gardening is a pastime or recreation. Many others, while still cultivating the soil for financial returns, confess that the money thus earned is the smallest reward for their labor. Everywhere there are village gardens, suburban home lots and private estates. The very type and model of all the operations on all these places is to be found in the garden of dwarf fruit trees. The suburban lot which would be crowded with two or three common Baldwin apple trees can easily accommodate forty or fifty dwarf trees bearing apples, pears, plums, peaches, nectarines, and the whole lot of hardy fruits.

These dwarf trees have a very great advantage further in the fact that they come into bearing very early. One has to wait ten years for fruit from a common apple tree, while a dwarf tree of the same variety will bear in three years. The fruit is also of the highest quality.

Even in strictly commercial operations the dwarf trees have their place. They make the best of "fillers" for temporary planting between permanent standard trees in a new orchard, and there are some commercial orchards of dwarf trees, particularly of pears, long and favorably known in America as profit yielding enterprises.

All these advantages are enthusiastically set forth in Professor Waugh's new book. What is more important the book also tells, in detail, how these advantages are to be secured. In pleasing and readable style the propagation of the trees is described, their planting, pruning, care and general management. The work as a whole is eminently practical and timely. It is fully and handsomely illustrated and substantially bound in cloth.

Illustrated, 5x7 inches, 112 pages. Cloth. Price, 50 cents

Successful Fruit Culture

A Practical Guide to the Cultivation and Propagation of Fruits.

By SAMUEL T. MAYNARD, B.Sc.

THIS book is written from the standpoint of the practical fruit grower who is striving to make his business profitable by growing the best fruit possible and at the least cost. It is up-to-date in every particular, and covers the entire practice of fruit culture. It gives in plain, practical language, descriptions of such varieties as are most in demand in our markets, and the method practiced by the most successful cultivators of many sections of the country. It deals with principles first and with the practice afterwards, as the foundation principles of plant growth and nourishment must always remain the same, while practice will vary according to the fruit grower's immediate conditions and environments. Separate chapters are devoted to the apple, pear, peach, apricot and nectarine, plum, cherry, quince, mulberry, grape, blackberry, raspberry, cranberry, blueberry, huckleberry, subtropical fruits, propagation of fruit trees and plants, fruit growing under glass, insect pests, and fungous diseases. The chapter on the apple is particularly comprehensive and complete, forming a monograph in itself. It treats very fully on the soil best suited to its growth, trees for an orchard, digging the holes, preparing the trees for planting, establishing the head, time for planting, turf culture, green manuring or cover crops, mulching, pruning, thinning fruit, age of bearing, regrafting old trees, varieties, gathering apples, assorting apples, packages and packing, marketing apples, storing apples, cold storage houses, etc., etc. With like thoroughness the other kinds of fruits are discussed.

Illustrated, 5x7 inches, 274 pages. Cloth. Price, \$1.00

Peach Culture

By JAMES ALEXANDER FULTON

REVISED EDITION

THE various works published on fruit culture treat of the peach as they do of other fruits, in a general way, but until the appearance of Judge Fulton's book there was nothing that gave the operations of peach culture as a business. Living in the center of one of the greatest peach growing districts in the world, he was enabled to give every detail, and to furnish a complete guide to those who would embark in the peach culture. During the years that have passed since its first appearance, while there have been few improvements in the general operations of the nursery and orchard, there have been many new varieties introduced. During this time there has been a marked improvement in the early varieties of the peach, and the introduction of these, and the discarding of others, have made it necessary to rewrite this portion of the work. In its present revised form the volume is the only practical guide to peach culture as followed on the Delaware Peninsula, and essential to those who would undertake the cultivation of this fruit in any other part of the United States.

Illustrated, 5x7 inches, 204 pages. Cloth. Price, \$1.00

Cranberry Culture

Natural History, Cultivation, Management, Etc.

By J. J. WHITE

MILLIONS of dollars are spent annually by the American people for cranberries. Properly managed, there is not a more profitable industry than the cultivation of this fruit. "Cranberry Culture" is a practical treatise on the subject and should be in the hands of everyone who expects to embark in cranberry growing. It tells all about cultivation, choice of location, preparation of the ground, planting the vines, management of meadows, flooding, enemies and difficulties, picking, keeping, profit and loss, and every other detail connected with the business. The work also gives full account of the different varieties in cultivation and it is regarded as the most complete and satisfactory of the many special treatises on fruit culture. The directions are admirably full and clear, and the author has anticipated every difficulty the novice is likely to encounter.

Illustrated, 5x7 inches, 131 pages. Cloth. Price, \$1.00

The American Fruit Culturist

By JOHN J. THOMAS

Revised and Enlarged by W. H. S. WOOD

IN ITS present form this standard pomological work is practically a new book, containing practical directions for the propagation and culture of all the fruits adapted to the United States. Numerous chapters have been added upon subjects which have become of practical value and of vital importance to all would-be fruit growers. The chapter on insects and diseases has been greatly extended, the section treating of the varieties of the different kinds of fruits has been very thoroughly revised so as to include all the approved newer sorts; and new chapters have been added on nuts, wild fruits and sub-tropical fruits. All illustrations of fruits are from average-sized specimens, and are life size unless otherwise definitely stated. A systematic classification has been adopted for the principal fruits. By placing them under separate and characteristic heads, the cultivator is enabled to distinguish and remember each sort with more readiness than where all are thrown indiscriminately together. The distinguishing characteristics of this work are: I. The arrangement of the chapters. II. The systematic classification of most of the large fruits, and more especially of the apples and pears. III. The condensed descriptions of fruits, which have been mostly taken from the ripened specimens. IV. The copious illustrations of the various operations. No other work of its character has enjoyed the popularity of this one, which has now been brought up to the most recent standard.

Illustrated by nearly 800 engravings, 5x8 inches, 823 pages. Cloth. Price, net, \$2.50

Barry's Fruit Garden

By P. BARRY



THIS standard work upon Fruit Culture is written from the practical experience of the widely known author who for half a century has been universally recognized as one of the most successful nurserymen, and best informed and most renowned pomologists of America. It explains all the minutiae of fruit culture, and demonstrates how the industry of our times is peculiarly distinguished by the application of science—the union of theory with practice in every department. The author is fully sensible of the importance that the work of the fruit grower should be done intelligently and understandingly, and that without a full knowledge of the minutiae and practical details of culture success cannot be expected. Therefore, before entering upon the main subject, he describes in as few and as plain words as possible the structure, character, connection and respective offices of the various parts of fruit trees and

the names by which each is known in practice.

In the lists and descriptions of varieties the main object aimed at is to bring to the notice of cultivators the *best varieties*, those which ample experience has proved to be *really valuable*, as nothing is more embarrassing to the inexperienced cultivator than long lists. The arrangement of varieties under the heads of *Summer*, *Autumn* and *Winter* will materially assist the reader in selecting varieties ripening at particular seasons, while the terms early or late summer, etc., in place of the month, is because of its better application to the various states and sections of states.

The entire plan of the work is so admirable and the manner in which all the details are treated so clear and concise as to make it invaluable to anyone who would become fully informed upon the subjects of which it treats. For the sake of convenient reference the different branches of the subject have been separated into four parts:

PART I.

General Principles—Names, Descriptions and Offices of the Different Parts of Fruit Trees; Soils; Manures; The Different Modes of Propagating; Pruning—Its Principles and Practice.

PART II.

The Nursery—Soil, Situation, etc.

PART III.

The Laying Out, Arrangement and General Management of Permanent Plantations of Fruit Trees, Selection of Trees and Varieties, and Pruning and Conducting Trees Under Various Forms.

PART IV.

Select Varieties of Fruits, Gathering and Preserving Fruits, Diseases, Insects, Implements in Common Use.

Illustrated, 5x7 inches, 516 pages. Cloth. Price, \$1.50

**HARVESTING
STORING**

FRUIT

MARKETING

By F. A. Waugh

A Practical Guide to the Picking, Storing, Shipping and Marketing of Fruit

WHILE there are many books on the growing of fruit, this is the first one on the equally important work of handling and selling it. The principal subjects covered are the FRUIT MARKET, FRUIT PICKING, SORTING and PACKING, the FRUIT STORAGE, EVAPORATING, CANNING, statistics of the FRUIT TRADE, FRUIT PACKAGE LAWS, COMMISSION DEALERS and DEALING, etc., etc. The important subjects of the FRUIT PACKAGE and COLD STORAGE are especially well and comprehensively treated.

The subject has been treated strictly from the standpoint of the fruit producer. The commission business, for instance, is thoroughly and fairly discussed, and the commission men can hardly help but be pleased with the advice given, yet it is all plainly directed to the benefit of the fruit grower. Evaporating and canning are handled in the same way—not by telling how to run a canning factory or a commercial evaporator—but by explaining those points which are of interest to the man who grows the fruit. The whole subject is tersely, plainly put and adequately illustrated. It is a book which everyone can read and enjoy, and which no fruit grower, large or small, can do without.

Illustrated, 5x7 inches, 250 pages. Cloth. Price, \$1.00

BY THE SAME AUTHOR

Plums and Plum Culture



A COMPLETE manual for fruit growers, nurserymen, farmers and gardeners, on all known varieties of plums and their successful management. This new book marks an epoch in the horticultural literature of America. Plum culture is one of the most complicated of specialties; and Prof. Waugh is one of the best known of the specialists. So far from being a mere compilation of others' views, this work represents in an unusual degree the original discoveries of the author. Nevertheless the discoveries and practical experience of others have not been disregarded. The book is a complete monograph of the plums cultivated in and indigenous to North America. It will be found indispensable to the scientist seeking the most recent and

authoritative information concerning this group, to the nurseryman who wishes to handle his varieties accurately and intelligently, and to the cultivator who would like to grow plums successfully.

Illustrated, 5x8 inches, 391 pages. Cloth. \$1.50

The Nut Culturist

A Treatise on the Propagation, Planting and Cultivation of Nut-Bearing Trees and Shrubs

Adapted to the Climate of the United States

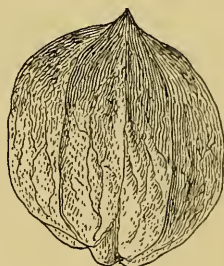
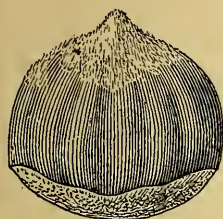
With the Scientific and Common Names of the Fruits Known in Commerce as Edible or Otherwise Useful Nuts

By **ANDREW S. FULLER**

AUTHOR OF

"Grape Culturist," "Small Fruit Culturist," "Practical Forestry," "Propagation of Plants," etc., etc.

PROFUSELY ILLUSTRATED



WHEN it is considered that the United States sends abroad annually several millions of dollars to pay for various kinds of nuts imported from foreign countries the greater part of which could profitably be grown at home, it seems strange that so little attention has been paid by American farmers to the planting and raising of edible nuts. There has been a prevailing idea among our people that nut trees could not be grown easily, their cultivation and management requiring some unusual skill, and that failure stared those in the face who attempted to plant and raise nuts.

In Europe as much care and attention is given to the growing of nuts as to any kind of fruit trees, and the profits derived from them are, in some sections of continental Europe, greater than from any other class of trees. While it is not rare to see extensive nut orchards on plains and mountain sides, the principal and favored locations for them are along the public highways. Miles and miles of English walnuts and chestnuts line the roadsides, and the returns from them often go far to meet the expenses of local government.

Most of our native nut-bearing trees, as well as the English walnut, are remarkably handsome in appearance, which is another reason why they should replace many worthless kinds that are so frequently seen along our highways.

The author of this book has for many years made a careful study of the entire subject, and has given in this volume the results of his experiences and investigations. In successive chapters he treats upon the almond, beechnut, castanopsis, chestnut, filbert, hickory, pecan and walnut, giving a condensed account of their history, description of all the species and varieties, together with their propagation by seed or otherwise; modes of grafting and budding, transplanting, pruning, gathering and marketing; insect and fungous enemies, and the best means of preventing their ravages; and all the important details in regard to the methods and practices for the successful and profitable raising of nuts. The closing chapter is devoted to the description of the fruits which are known in commerce as nuts, and to foreign kinds of nuts which are not grown successfully in the United States.

Over 100 original illustrations embellish the volume. This work its author has always considered as the most valuable one he has ever written, believing that it will develop a new and important industry for the benefit of American farmers and the prosperity of our country.

Illustrated, 5x7 inches, 298 Pages. Cloth. Price, \$1.50

The Small Fruit Culturist

By ANDREW S. FULLER



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Chapter II.—Strawberry
Chapter III.—Raspberry
Chapter IV.—Blackberry
Chapter V.—Dwarf Cherry
Chapter VI.—Currant

Chapter VII.—Gooseberry
Chapter VIII.—Cornelian Cherry
Chapter IX.—Cranberry
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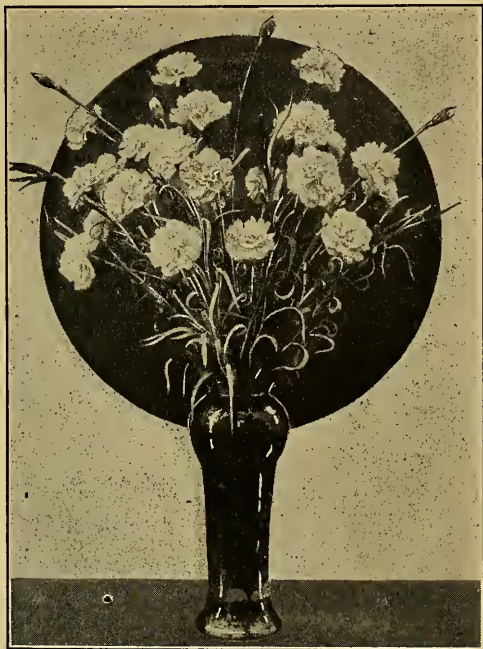
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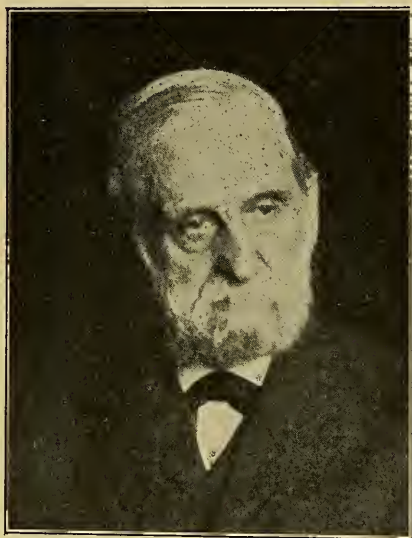
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With the application of these Principles
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in Art in General

By FRANK A. WAUGH

Professor of Horticulture and Landscape Gardening, Massachusetts Agricultural College, Amherst, Mass.

HERE is a book out of the ordinary. There have been many books put out during recent years on nature study, gardening and rural pleasures, but nothing at all like this one. Most of the books leave the reader just where they find him. They are not constructive. They may give information,—or sometimes misinformation,—but there are no ideas essentially fresh. The present work sets forth a whole new system of nature study and nature appreciation.

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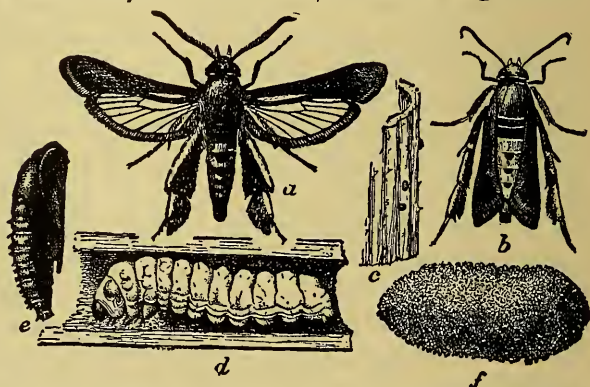
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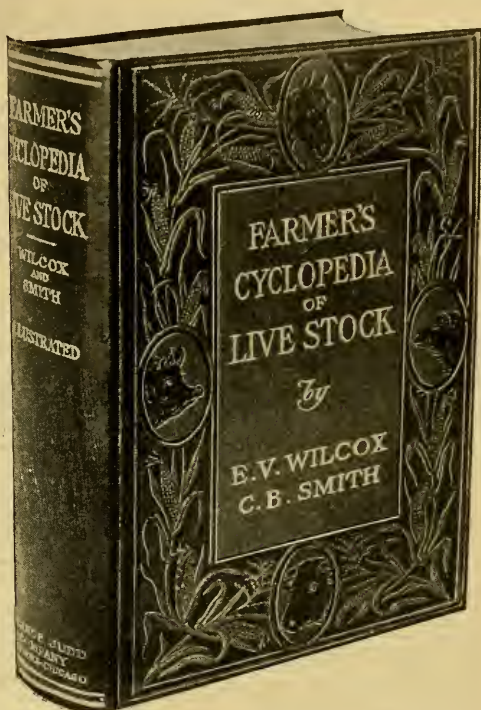
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Chemist of the New York Agricultural Experiment Station and

CHARLES A. PUBLOW, A.B., M.D., C.M.

Associate Professor of Dairy Industry in the New York State College of Agriculture at Cornell University

THE publishers have realized for some time the existence of an urgent call for a book on cheese-making which should be more than a mere recipe book. They are, therefore, gratified at being able to announce, in response to this demand, the publication of a work which represents both scientific and practical sides of cheese-making and which, in respect to authorship, has been prepared under unusually favorable auspices. Not only are the operations of cheese-making described in a clear, systematic and practical manner, but special attention is given to making prominent the reasons for each step.

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Dr. Van Slyke is well known as the author of our book, "Modern Methods of Testing Milk and Milk Products," which from the start has met with a phenomenal success. Three years ago he was selected by the Office of Experiment Stations, U. S. Department of Agriculture, to prepare a syllabus of lectures for a course in cheese-making, which was published as Bulletin No. 166. Dr. Van Slyke's reputation in connection with cheese-making has come mainly from the extensive investigations which have been carried on by him at the New York Agricultural Experiment Station at Geneva since 1890. These investigations have covered nearly every phase of interest and have been especially thorough in studying the chemical relations of milk and cheese.

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By LUCIUS L. VAN SLYKE

Chemist of the New York Agricultural Experiment Station



THIS book should be in the hands of every dairyman, teacher, and student. It contains a comprehensive discussion of the chemistry of cow's milk, embodying the most recently developed facts. The numerical data given are fresh and largely at first hand, representing American conditions, instead of being stale, miscellaneous data taken from European sources, so much of which has little application or value for American dairymen. Some errors that have been long incorporated in dairy literature on the composition of milk are here corrected. The publishers are aware that the author's long-continued study of the chemistry of milk has

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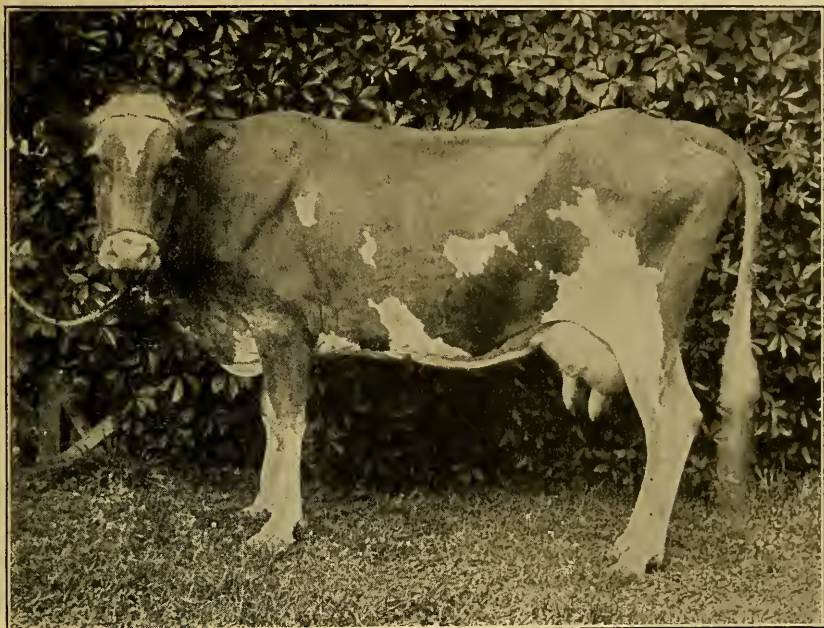
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Secretary Kansas Department of Agriculture

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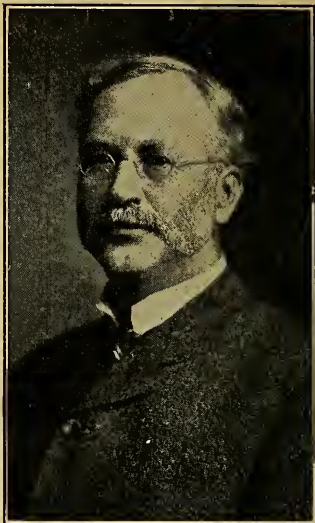
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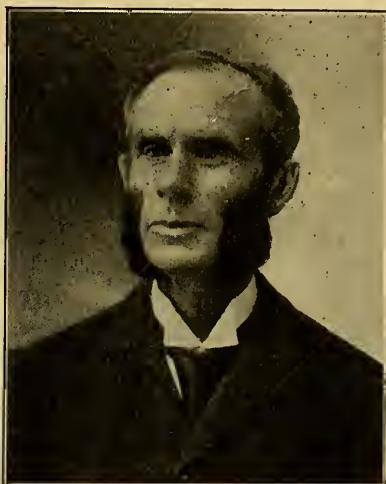


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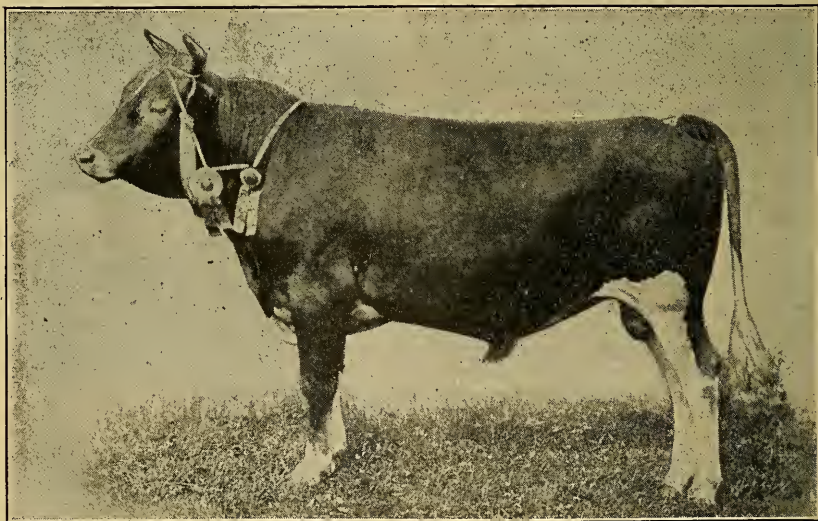
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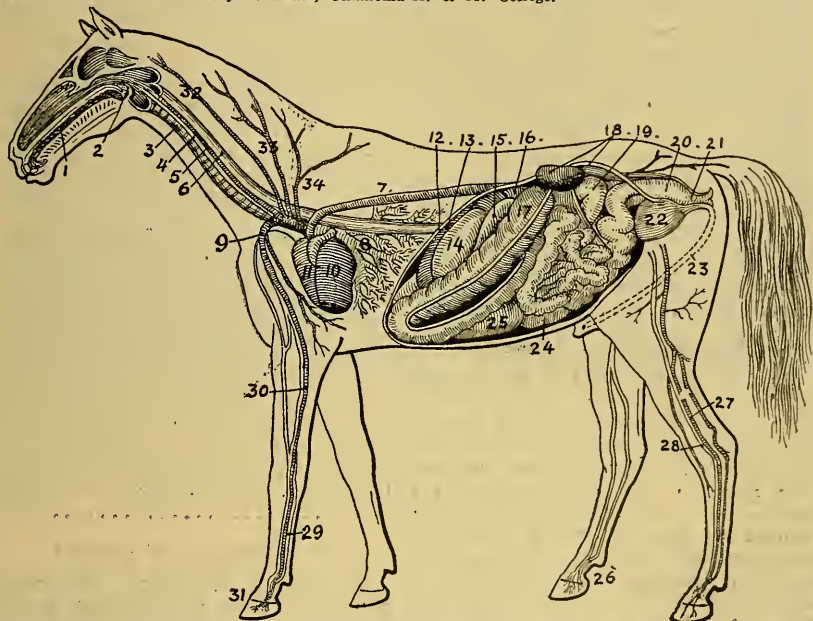
THE FARMER'S VETERINARIAN

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By CHARLES WILLIAM BURKETT

Editor American Agriculturist

Aided by the following veterinary contributors: Dr. Veranus A. Moore, Cornell University; Dr. Francis S. Schoenleber, Kansas State Agricultural College; Dr. Alexander S. Alexander, University of Wisconsin; Dr. Donald McIntosh, University of Illinois; Dr. Tate Butler, State Veterinarian of North Carolina; Dr. Robert Al Craig, Purdue University; Dr. Austin Peters, State Veterinarian of Massachusetts; Dr. Myron H. Reynolds, University of Minnesota; Dr. Guy A. Roberts, North Carolina A. & M. College; Dr. Charles F. Dawson, Delaware College; Dr. Clarence L. Barnes, Colorado Agricultural College; Dr. Leonard W. Goss, Kansas State Agricultural College; Dr. C. D. Smead, New York Practicing Veterinarian and Dr. Lowerty L. Lewis, Oklahoma A. & M. College.



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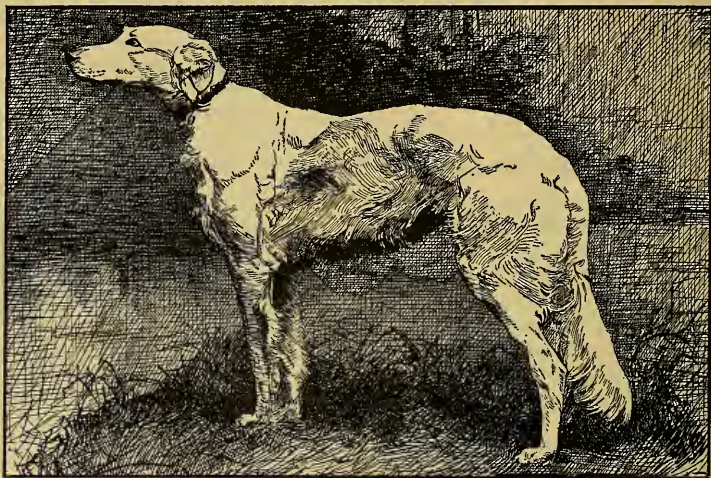
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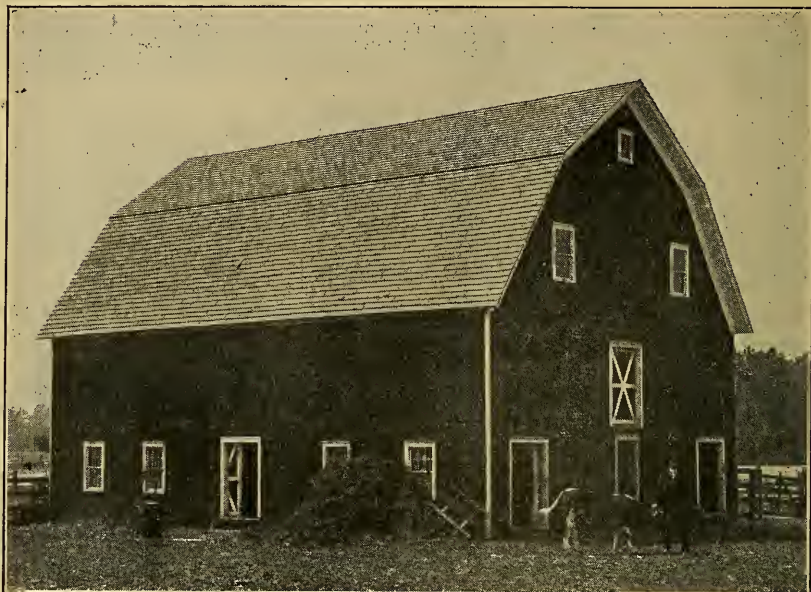
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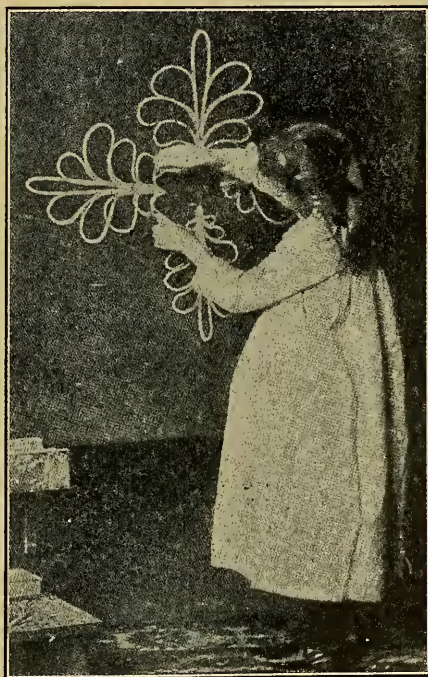
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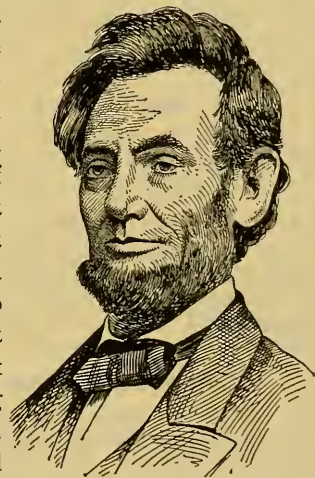
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Vegetable Gardening

By R. L. WATTS

This complete, concise and authentic book covers every phase of vegetable gardening and is specially well organized as a text-book and equally valuable as a hand-book for practical growers. The author is the well-known teacher and practical market gardener Ralph L. Watts, Professor of Horticulture in the Pennsylvania State College. This book is the only volume on vegetable gardening the scheme of which is in accordance with the recommendations of the association of American agricultural colleges. The logical and systematic arrangement of the matter enhances the value of the book for students as well as for busy commercial growers who need a well-organized treatise for frequent reference.

The bulletins of the experiment stations of the United States Department of Agriculture and various books and periodicals relating to garden crops were frequently consulted during the preparation of the manuscript, while at the same time the experience of successful growers is woven into every chapter. The book brings up to date the most reliable information on vegetable gardening and the full discussion of principles makes it valuable to all classes of growers whether they are producing for the home table or for market. To procure first-hand knowledge regarding varieties and methods, many market gardens and truck gardens were visited in different parts of the United States. This made it possible to obtain photographs which have been used freely to illustrate the various chapters.

An idea of the scope and completeness of the book may be gained by noting the following subjects, each of which has been treated in a separate chapter: A General View, Selection of Location, Soils, Tillage, and Tillage Tools, Stable Manures, Green Manures and Cover Crops, Commercial Fertilizers, Irrigation, Insect Enemies and Fungous Diseases, Seeds and Seed Growing, Construction of Hot-beds, Construction of Cold Frames, Construction of Greenhouses, Seed Sowing, Transplanting, Growing Early Vegetable Plants Under Glass, Marketing, Co-operative Associations, The Storage of Vegetables, and the Classification of Vegetables.

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Fertilizers and Crops

OR

The Science and Practice of Crop-Feeding

By DR. LUCIUS L. VAN SLYKE,

Chemist of the New York Agricultural Experiment Station

This new book is a timely presentation of facts not only giving practical methods for using fertilizers in crop growing, but placing special emphasis on the reasons underlying their use and on the conditions of the greatest efficiency. It has been prepared for the use of students in agricultural schools and especially for the larger class of students directly and vitally interested in the growing of crops.

During the past ten years, many books have been published relating to soils, crop growing and fertilizers, each treating some special, limited phase; but the publishers have felt for some time that there has been an increasing need of a book different from any of those that have yet appeared. This book is the result of an effort to meet such a demand. At no time in the history of this country has the growing of crops attracted so wide and intense interest as at the present and at no time has there been such eager inquiry for reliable, up-to-date information among progressive farmers. An examination of the book shows that the author has kept in mind the fact that a work treating of the practical use of fertilizers on the farm should be something more than a mere collection of recipes giving the number of pounds of different fertilizing materials to use for this or that crop. The book has been written from the standpoint that, while plant-foods constitute a most important factor in crop growing, there are other vital factors as well which directly affect or control the effectiveness with which a crop utilizes the plant-food furnished it.

The first part of the book covers the factors of soil fertility. This consists of twelve chapters and treats of the relations of plant-food to soil fertility. It discusses, (1) essential plant-food constituents, what they are, where they come from, what particular effects they have in the growth of plants; (2) how plants take and use their food; (3) how plant-foods are lost and gained by soils; (3) the relations of micro-organisms to plant-foods; (4) the relation of water to soils and crops; (5) brief outlines of methods of soil management for the purpose of enabling plants to use their foods most efficiently.

The second part of the book covers the sources and composition of materials used as fertilizers. This consists of eight chapters and gives a full discussion of the various materials used as sources of plant-food. The new fertilizing materials that have only recently come into use are given careful attention. Of special practical value and fullness are the two chapters treating of the composition, changes, care, value and use of farm manure. The subject of green-crop manures is given detailed attention. Of special interest at this time is the very complete discussion of the use of lime on soils.

The third division of the book, factors in the selection of fertilizing materials, contains six chapters and furnishes a large amount of practical information, which will enable farmers to select fertilizing materials for use in crop growing on the basis of greatest suitability, feeding efficiency and economy of cost. Such subjects as the availability of different forms of plant-food materials, when to use commercial fertilizers, what to use, effects of fertilizers upon soils, adaptation to crops, comparative cost in different forms, various phases of commercial fertilizers, with their advantages and disadvantages, home mixing,—are all fully discussed from the standpoint of a farmer seeking helpful information. The principles of crop-rotation are treated in connection with the selection of fertilizers to use.

The fourth part of the book, practical use of fertilizers in the growing of individual crops, is the one to which the practical farmer will probably turn first. The treatment of the methods of using fertilizers is properly conservative but abreast of the most recent developments. The preceding portions of the book form a complete preparation to enable one to make use of this last part in the most intelligent, rational and efficient way. The treatment of the different crops in relation to the use of fertilizers is more complete than in any other book yet published. For example, we have nowhere seen the subjects of orchard crops, greenhouse crops, nursery crops, etc., discussed with such a degree of fullness and appreciation of practical relations, and the same is true of the other chapters.

Taken as a whole, this book contains an immense amount of detailed information, systematically arranged, clearly presented, very full and up-to-date. It is adapted to meet the needs of students who desire to obtain a good chemical knowledge of the subject, as well as to the use of farmers, who care only for the practical applications. The teachings of the author are conservative and are based on a broad consideration of all factors entering into the problems discussed.

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